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Specify Type of Document(s) / Comments:

SOLUTIA. *Solutions for a better life.*

June 10, 2004

Mr. Nabil S. Fayoumi
U. S. EPA - Region 5
77 West Jackson Boulevard (SR-6J)
Chicago, Illinois 60604-3590

Re: Sauget Area 2 Site – October 3, 2002 Unilateral Administrative Order (UAO) Groundwater Operable Unit
Monthly Report; May 1 - May 31, 2004 Reporting Period

Dear Nabil:

Attached is the Monthly Report for the Sauget Area 2 Site October 3, 2002 Unilateral Administrative Order (UAO) - Groundwater Operable Unit. This submittal is in fulfillment of the monthly reporting requirements of the UAO, Section XII, paragraph 62, Progress Reports. This report is for the period May 1 – May 31, 2004.

Sincerely,

Steven D. Smith

cc: Ken Bardo, - U. S. EPA
Mayor Sauget - Sauget, IL
Sandra Bron – IEPA
Mike Coffey - USFWS
Village of Sauget – c/o P. H. Weis & Associates (Attn: Brian Nelson)
Mayor Frank Bergman – Cahokia
L. Glen Kurowski - Monsanto
Cathleen Bumb – Solutia
Richard Williams – Solutia

Sauget Area 2 Site - Sauget, Illinois

October 3, 2002 UAO – Groundwater Operable Unit

Status Report

Date of Report: June 10, 2004
Period Covered: May 1 - May 31, 2004

Agency Actions / Communications

In an e-mail message dated June 19, 2003, U. S. EPA requested the submission of revised versions of the Focused Feasibility Study, the Remedial Design Work Plan, and the Pre-Final (95%) Remedial Design. The revisions were required to allow the use of a slurry wall rather than jet grouting for construction of the barrier wall. The revised documents were submitted on July 3, 2003. The ESD was issued by US EPA on July 30, 2003. The Final Design Submittals were approved by EPA on October 16, 2003.

Work Performed During the Reporting Period

Slurry Wall

- Total excavation through Friday May 28, 2004 = 277,181 sq ft. This does not include the area around the Ranney well which is ~ 8,500 sq ft.
- Total backfill placed through Friday May 28, 2004 = 189,206 sq ft.
- Cleaning and backfilling of the trench continued through the month of May, with approximately 4,000 cubic yards of new backfill being placed during the month. The rate of backfill in this portion of the trench is being controlled by the need to maintain a minimum of 40 feet of space between the toe of the backfill and the excavation face.
- Excavation of the southern leg of the wall continued during the month and approximately 200 feet of trench was excavated during the month.
- Pipes and services crossing the alignment of the north leg were located during the month. Those pipes that are no longer in service were abandoned and the remaining pipes were encased in concrete. The only remaining utility to be relocated is a stormwater culvert at the extreme eastern end of the north leg of the wall.

- The sand content of the slurry in the deeper portion of the trench exceeded the guidelines set by the contractor. In order to correct this situation, slurry de-sanding was started during the month.

Groundwater Treatment

- Pumping rates for the groundwater extraction system were set in accordance with the lookup tables provided in the ROD and the final design for the "no-wall" condition. This resulted in the groundwater discharge to the river being controlled by the system during the entire month.
- Effluent pumping data for each well are attached.
- Piezometer and pumping data are being forwarded to the Agencies weekly.
- The discharge pipeline was damaged by construction equipment and the extraction system had to be shut down to allow repair of the pipeline. Temporary repairs were completed that same day and the system was back in operation within 8 hours of the shutdown. Permanent repairs were made the following day.

Schedule

A new construction schedule was submitted in April. The Agencies requested that alternatives for accelerating the schedule be evaluated and that evaluation was submitted on May 18, 2004. Based on the evaluation, the option of extending the work week from 5 days to 6 (when the weather is cooperating) appears to offer advantages and the possibility will be explored further.

Submittals in May

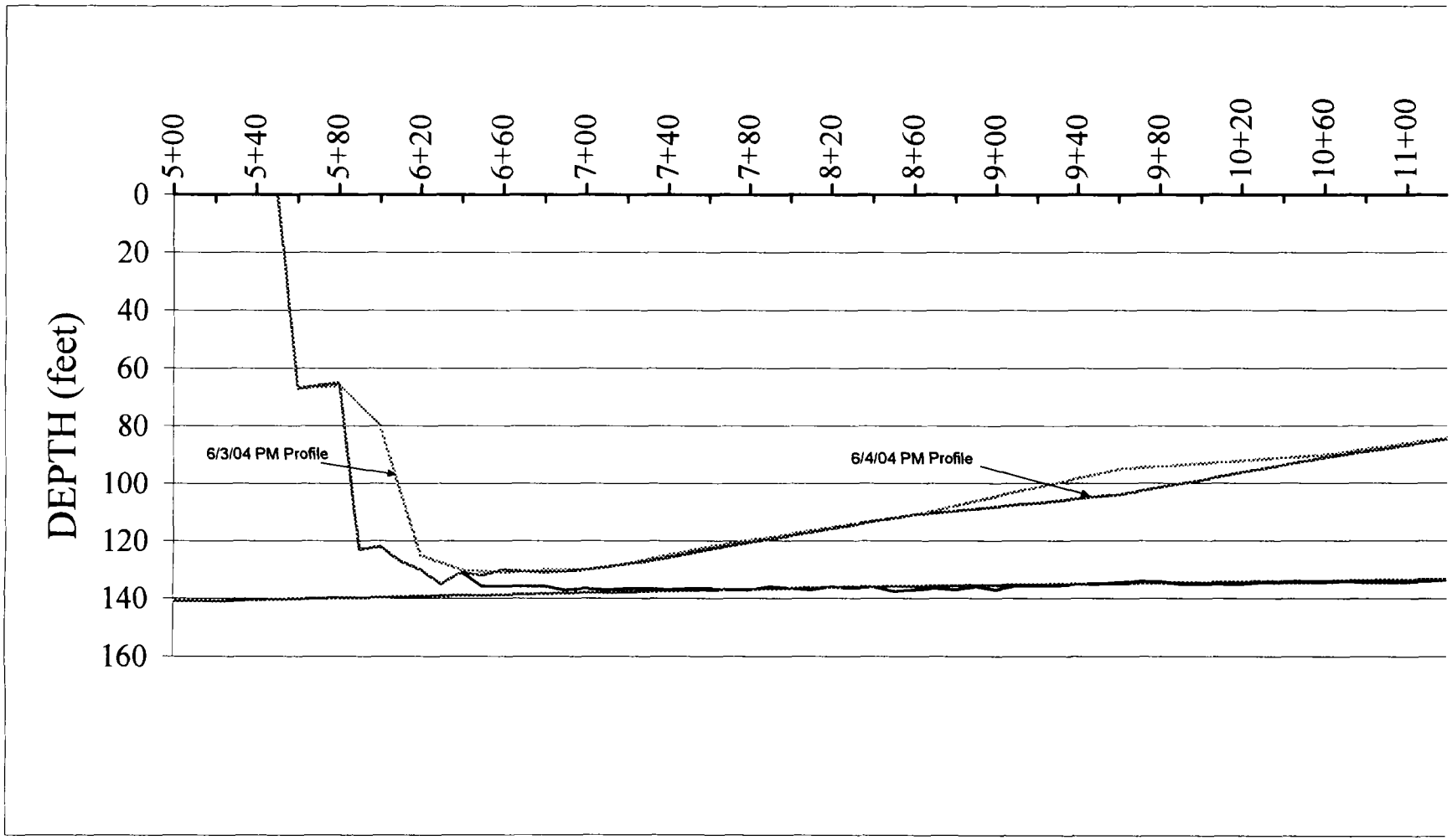
An evaluation of alternatives for schedule acceleration was submitted in May.

Work Scheduled for Next Reporting Period

- Continue pumping and treating groundwater based on river level. System control will be based on river levels, as specified in the ROD and the ESD. Flow rates computed for the "no-wall" condition will be used.
- Continue excavating the south leg of the slurry trench and begin excavating the remaining section of the north-south leg in the northwest corner of the site.
- Continue cleaning and backfilling the trench.
- Obtain easement from the Village of Sauget to temporarily close a portion of Riverview Avenue for construction and relocation of the stormwater culvert at the eastern end of the north leg of the wall.
- Relocate stormwater culvert.
- Continue de-sanding and recirculating slurry.

- Construct a temporary slurry holding pond on top of the landfill to store de-sanded slurry until needed on the north leg.

SLURRY WALL PROFILE


DEPTH (feet)
0
20
40
60
80
100
120
140
160
5+00
5+40
5+80
6+20
6+60
7+00
7+40
7+80
8+20
8+60
9+00
9+40
9+80
10+20
10+60
11+00
6/3/04 PM Profile
6/4/04 PM Profile

11+00
11+40
11+80
12+20
12+60
13+00
13+40
13+80
14+20
14+60
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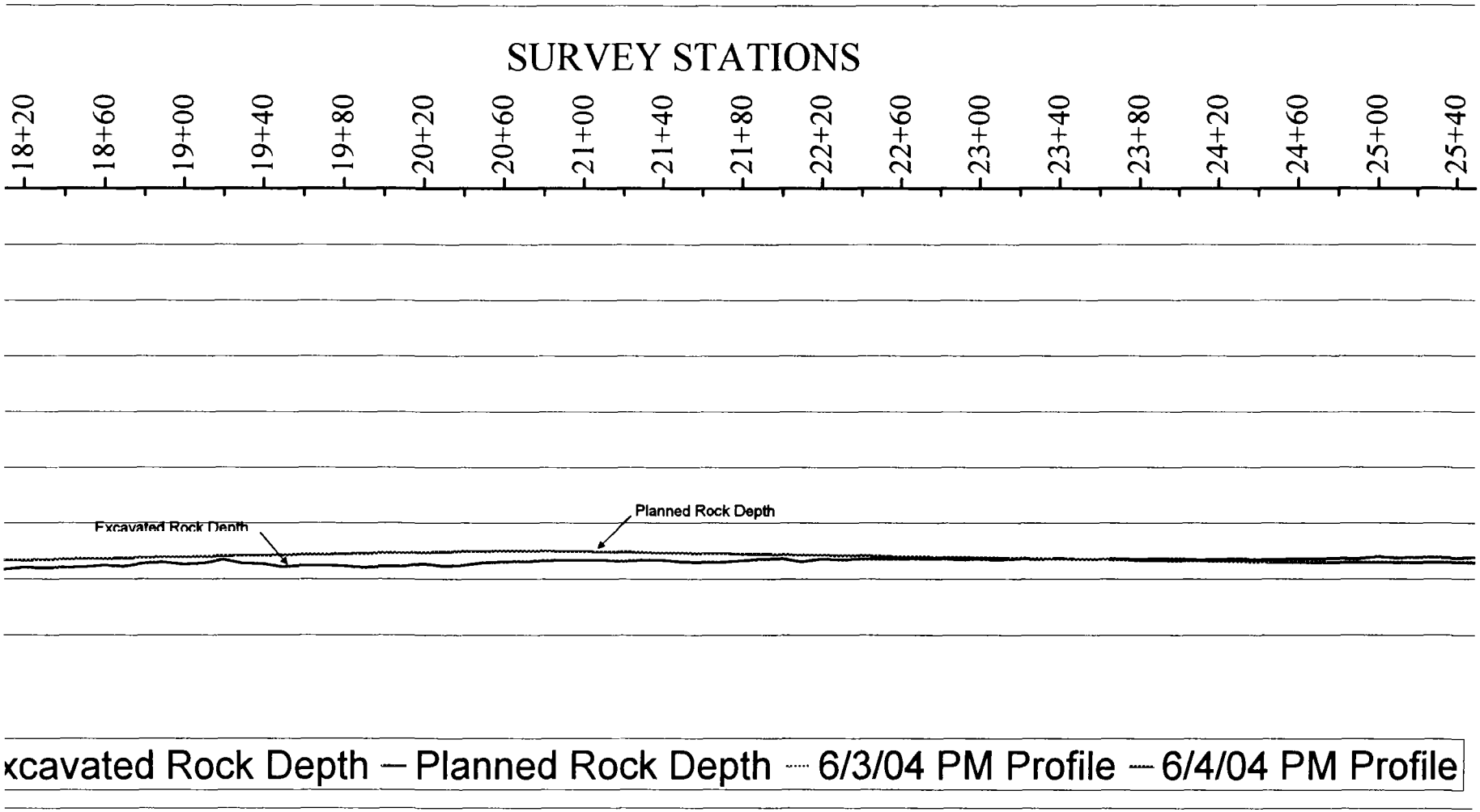
15+40
15+80
16+20
16+60
17+00
17+40
17+80
18+20
Recorded Exca


SURVEY STATIONS
18+20
18+60
19+00
19+40
19+80
20+20
20+60
21+00
21+40
21+80
22+20
22+60
23+00
23+40
23+80
24+20
24+60
25+00
25+40
Excavated Rock Depth
Planned Rock Depth
xcavated Rock Depth – Planned Rock Depth ···· 6/3/04 PM Profile — 6/4/04 PM Profile

25+40
25+80
26+20
26+60
27+00
27+40
27+80
28+20
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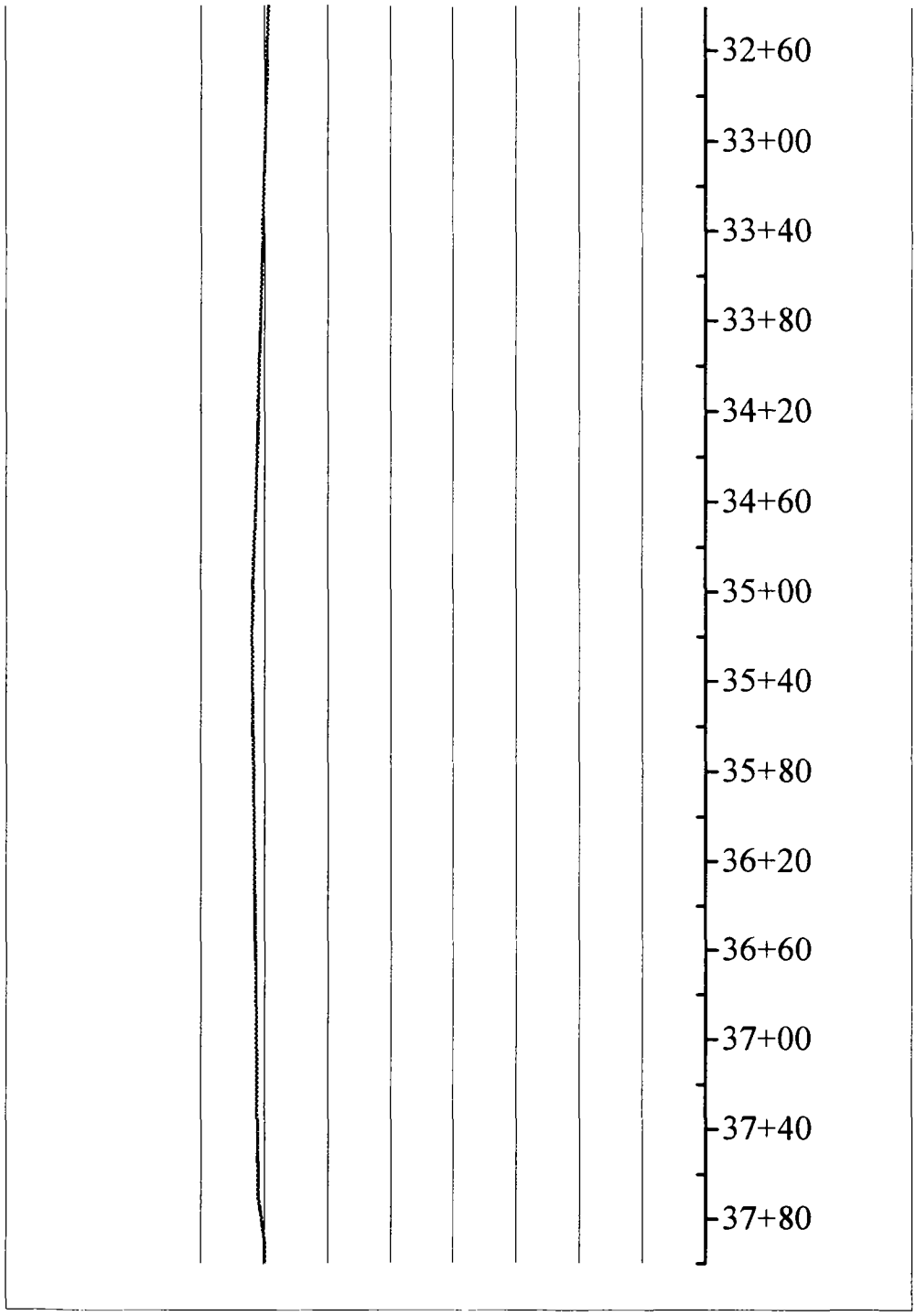
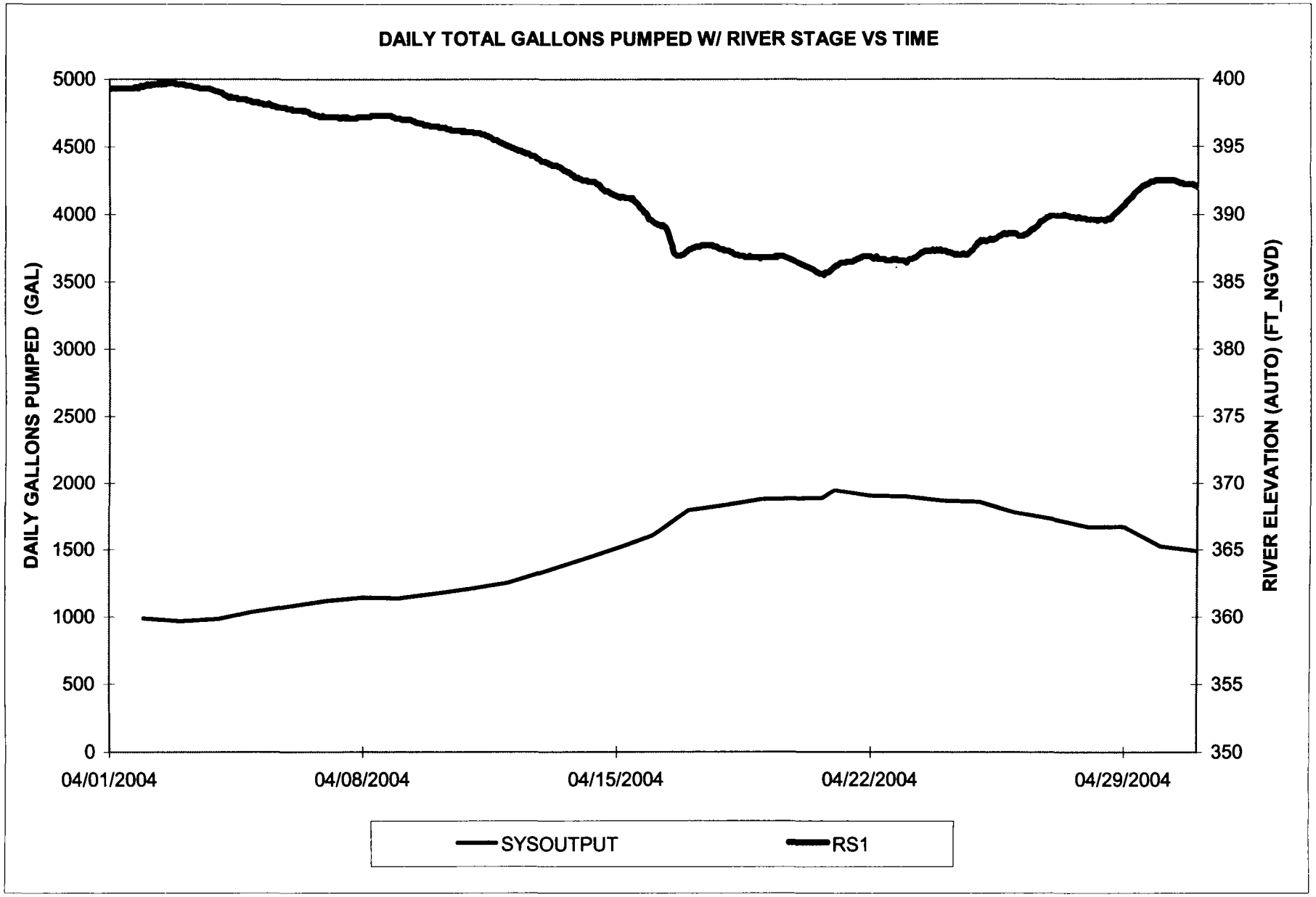
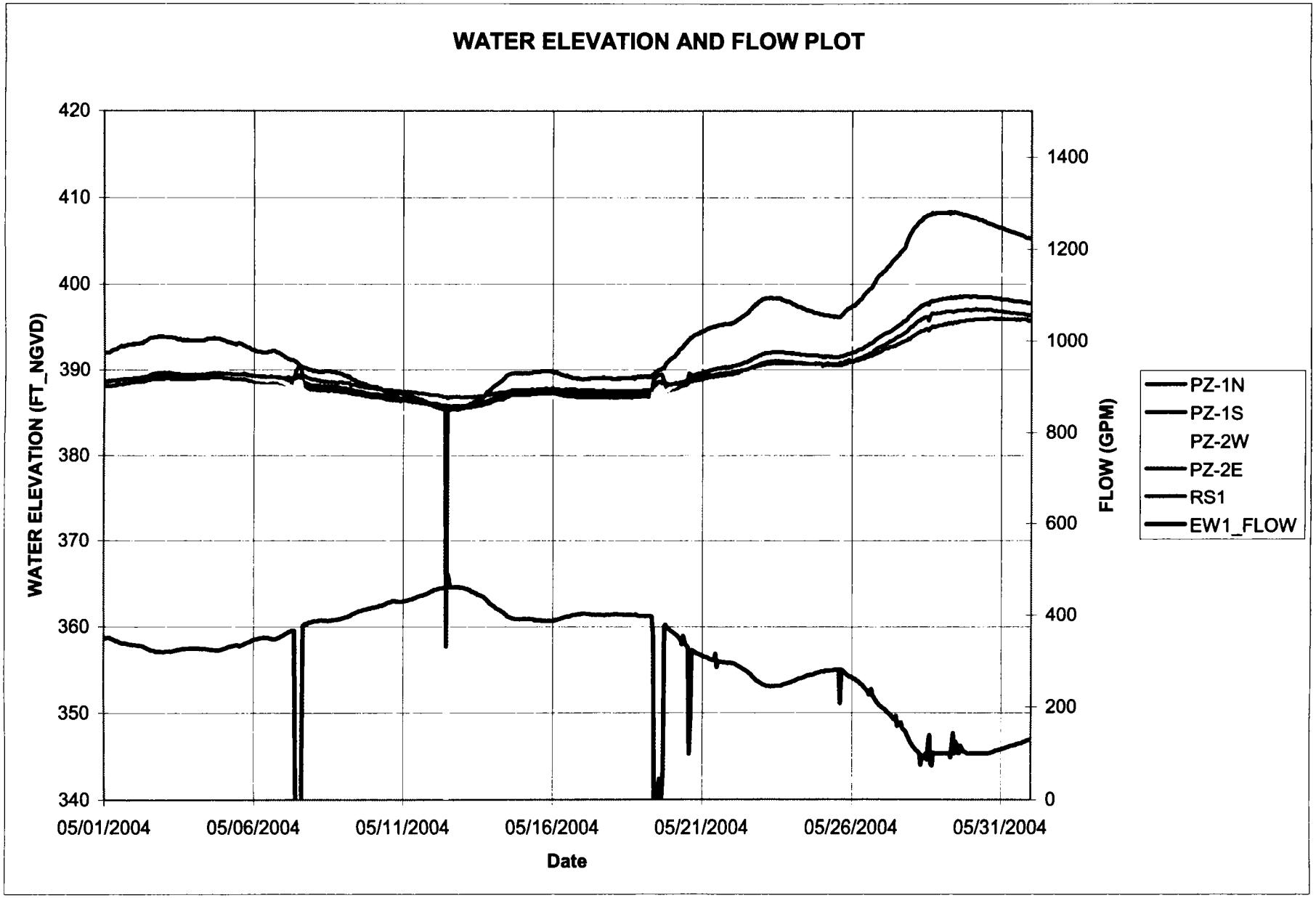
31+80
32+20
32+60

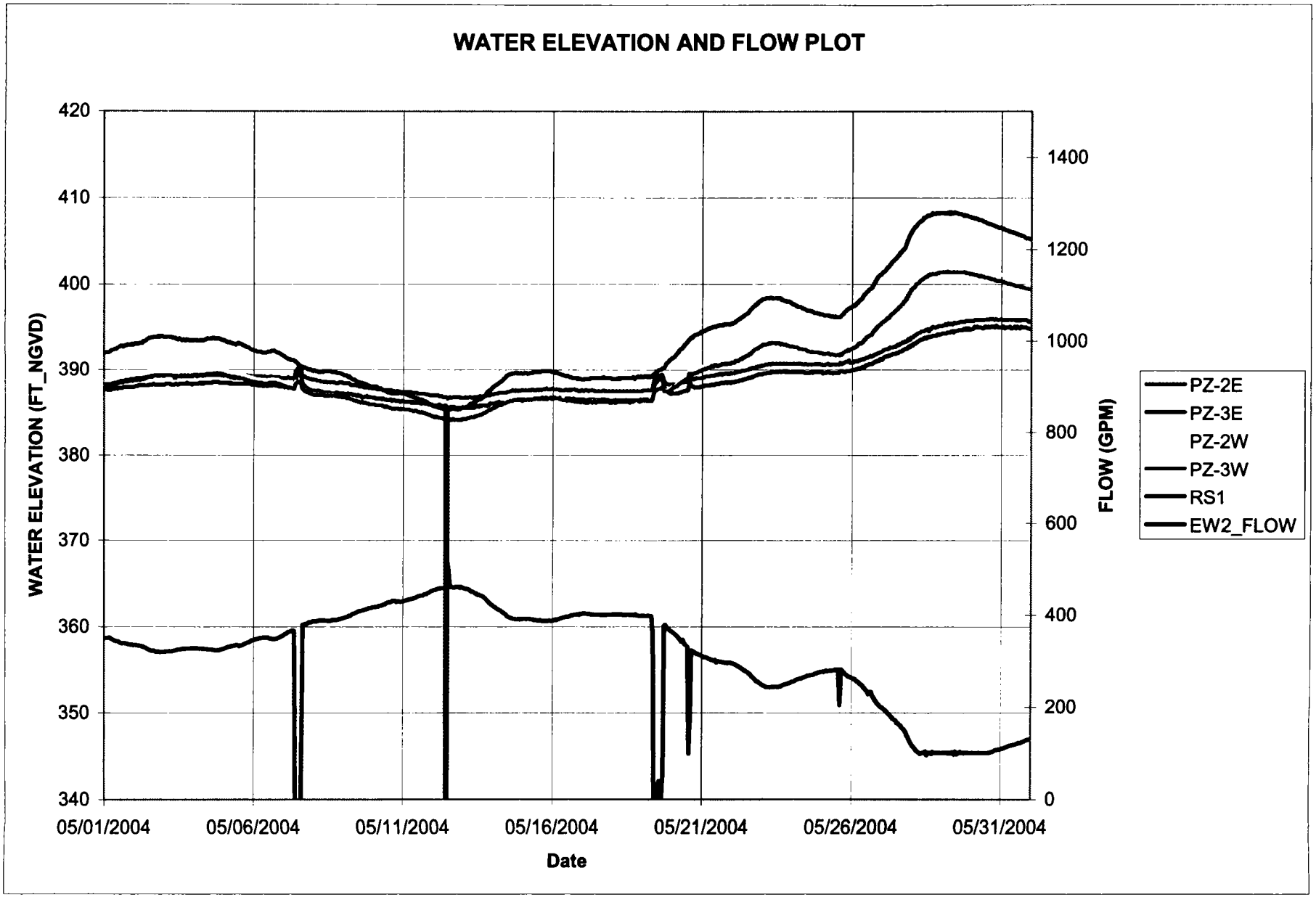
ile

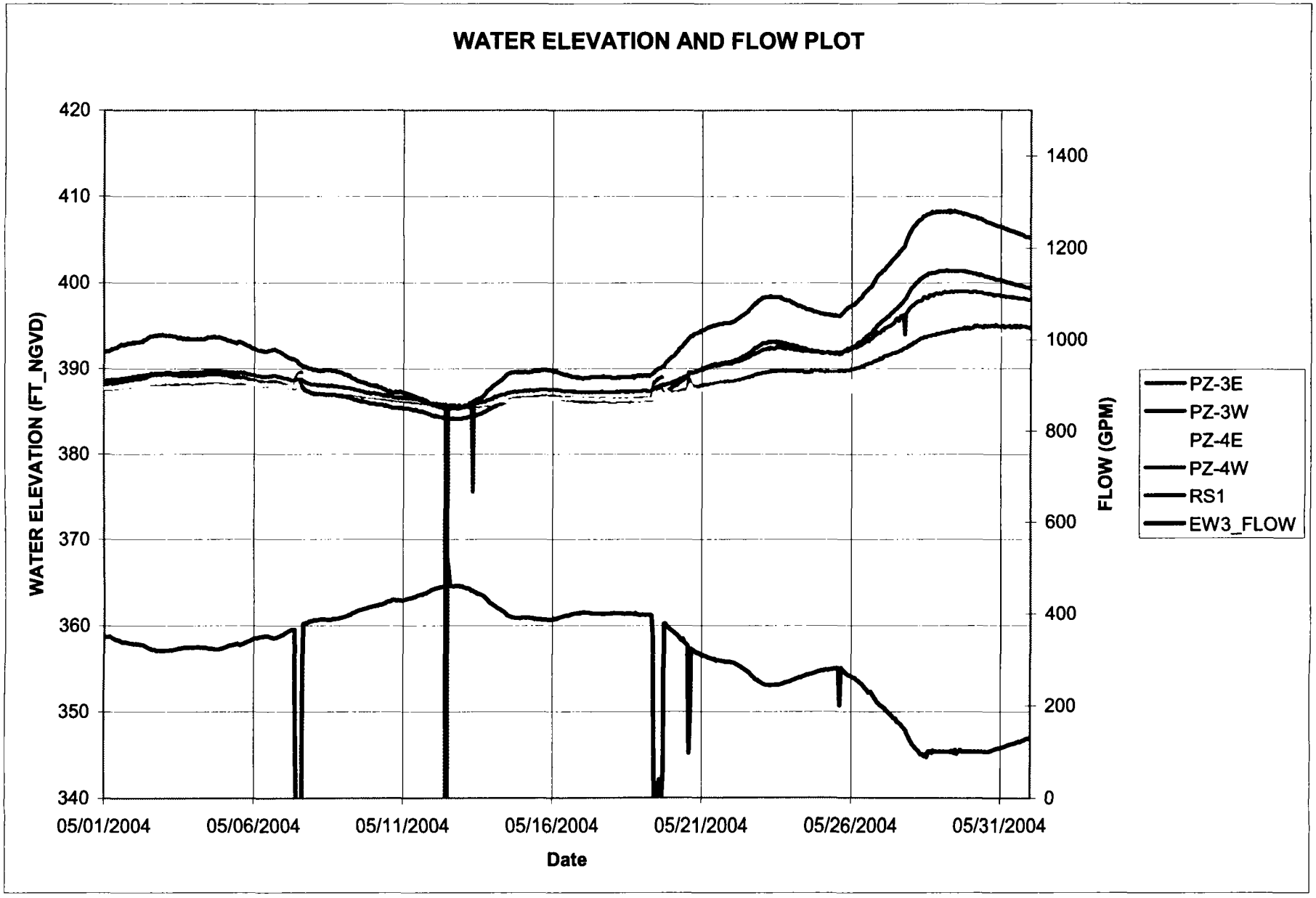

32+60
33+00
33+40
33+80
34+20
34+60
35+00
35+40
35+80
36+20
36+60
37+00
37+40
37+80

PUMPING


DAILY TOTAL GALLONS PUMPED W/ RIVER STAGE VS TIME
DAILY GALLONS PUMPED (GAL)
RIVER ELEVATION (AUTO) (FT_NGVD)
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
400
395
390
385
380
375
370
365
360
355
350
04/01/2004
04/08/2004
04/15/2004
04/22/2004
04/29/2004
SYSOUTPUT
RS1


WATER ELEVATION AND FLOW PLOT
WATER ELEVATION (FT_NGVD)
420
410
400
390
380
370
360
350
340
FLOW (GPM)
1400
1200
1000
800
600
400
200
0
05/01/2004
05/06/2004
05/11/2004
05/16/2004
05/21/2004
05/26/2004
05/31/2004
Date
PZ-1N
PZ-1S
PZ-2W
PZ-2E
RS1
EW1_FLOW


WATER ELEVATION AND FLOW PLOT
WATER ELEVATION (FT_NGVD)
420
410
400
390
380
370
360
350
340
FLOW (GPM)
1400
1200
1000
800
600
400
200
0
05/01/2004
05/06/2004
05/11/2004
05/16/2004
05/21/2004
05/26/2004
05/31/2004
Date
PZ-2E
PZ-3E
PZ-2W
PZ-3W
RS1
EW2_FLOW


WATER ELEVATION AND FLOW PLOT
WATER ELEVATION (FT_NGVD)
420
410
400
390
380
370
360
350
340
FLOW (GPM)
1400
1200
1000
800
600
400
200
0
05/01/2004
05/06/2004
05/11/2004
05/16/2004
05/21/2004
05/26/2004
05/31/2004
Date
PZ-3E
PZ-3W
PZ-4E
PZ-4W
RS1
EW3_FLOW